PUB
Water for All : Conserve, Value, Enjoy

Request No. : V6894890N
Date : 17 MAR 2023

Dear Sir/ Mdm

APPLICATION FOR WATER SERVICE PLANS (WSP) ON LOT MK04-05903V

1 The approximate positions of our existing watermains are shown in the enclosed drawing. Smaller submains and connection pipes (< 100 mm) to customers' premises/properties may not be included.

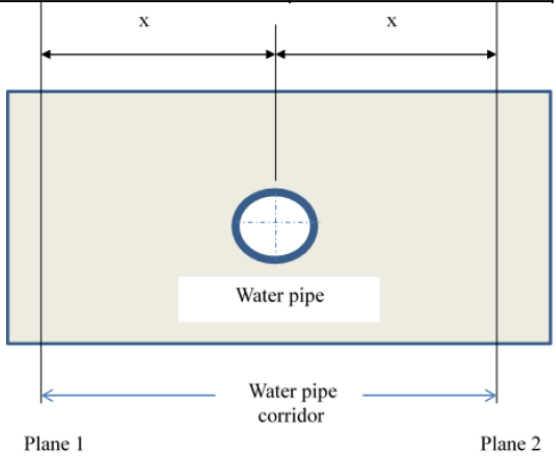
2 Our other comments/requirements are shown in the Appendix printed overleaf.

3 For enquires on diversion work or protection of existing services on existing developments, please contact Mr Lau Khai Keong (NS-C) at Tel No. 6885 2541 or email address: **Lau_khai_keong@pub.gov.sg.**

4 Please refer to the advisory notes for the protection of water mains in the vicinity of the proposed works. The advisory notes can be found at **www.pub.gov.sg/Documents/Watermains_AdvisoryNotes.pdf**

5 For specified activities within the Watermains Protection Corridor (refer to the below table), the QP/Contractor/Consultant shall make a submission for the specified activities to PUB's Online portal for the Protection of Water and Sewer pipes at **https://bpu.pub.gov.sg/pows**. POWS serves as a centralised portal for processing of submissions by Qualified Persons/Professional Engineers/Contractors prior to carrying out specified activities near water pipes and public sewers.

Water Pipe	Distance X on either side from the centreline
<900 mm Diameter	10 metres
≥ 900mm Diameter	20 metres
Tunnels and Tunnelled pipes	40 metres



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BUILDING PLAN UNIT

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Appendix

1 PUB REQUIREMENTS FOR CONNECTION OF WATER SERVICES

a Water reticulation drawings must be submitted by a Professional Engineer to Water Supply (Network) Department if pumping system or storage cisterns for the water services are required. If all the fittings in the water service installation are receiving direct water supply from PUB mains, then a licensed water service plumber shall be engaged to submit an application together with a set of drawings to Water Supply (Network) Department prior to commencement of the installation works.

b The design of the water service installation shall comply with Public Utilities (Water Supply) Regulations, SS636 - The Code of Practice for Water Services and all other statutory requirements. The mode of water supply to be adopted is as follows:

Height of Highest Fittings above Mean Sea Level	**Method of Supply**
i) Less than 25 metres	Direct
ii) Above 25 metres but below * 37 metres.	Indirect supply through high level storage cisterns
iii) Above 37 metres.	Indirect supply through low level cistern with pumping to high level cisterns

(*Refers to height of inlet pipe to high level storage cisterns)

c Notwithstanding the above mode of supply, where water is essential for the operations of development, storage cisterns of capacity equivalent to 24 hours' water requirements shall be provided for purposes of maintaining a continuous supply of water in the event of supply interruption.

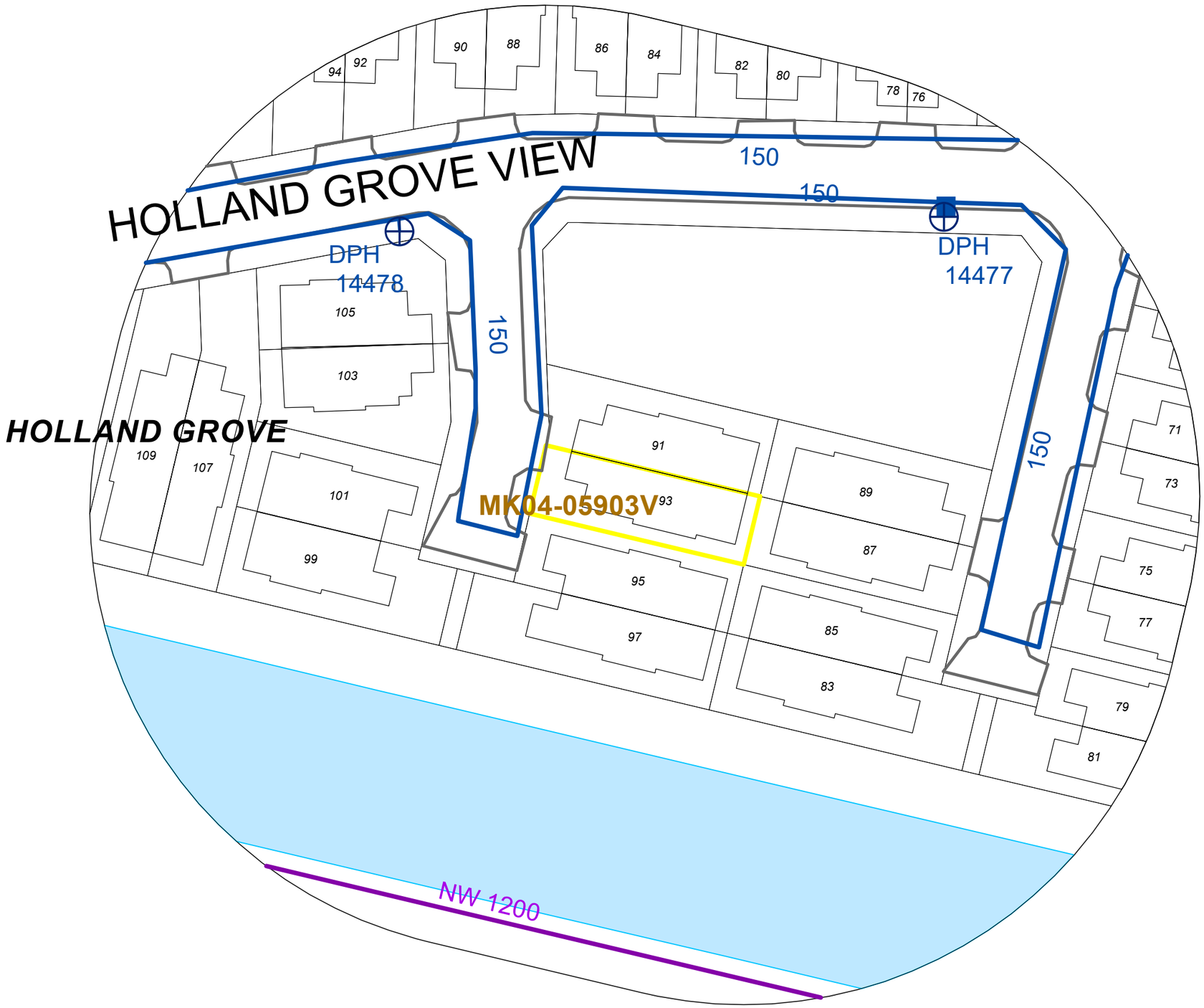
d The detailed water requirement for the proposed development shall be submitted to Water Supply (Network) Department for approval.

e PUB is presently supplying NEWater for direct non-potable purposes such as for cooling towers, industrial processes, general washing, landscaping, toilet flushing and other non-potable purposes. All new non-domestic premises such as commercial and industrial developments, etc. are therefore required to provide a dedicated NEWater pipe system now to facilitate the supply NEWater when it becomes available in future. Provision shall also be made for a NEWater storage tank to be installed within the premises with its inlet not higher than 115mRL and a capacity equivalent to the 1 day's non-potable water requirement. There shall be no cross connection between the PUB water and NEWater supply pipelines. Developers/ consultants may consult PUB during the pre-planning stage on the detailed requirements.

f Non-potable water should be used for non-potable purposes such as irrigation, general washing, etc. whenever possible.

g Water used should be recycled wherever possible.

h Water pipes and fittings to be used in the proposed development shall comply with the standards prescribed by PUB.



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1. The plan and the information contained herein is privileged and is given solely to the intended recipient for the specific purpose in which the plan is given. No part of the plan shall be reproduced or circulated to others under any circumstances.

2. The information of the watermains on this plan is valid as at date plotted and is given without any liability for any error, mis-statement or omission therein.

3. Position of watermains and the boundary lines of the water catchment indicated on this plan are approximate only. Smaller submains and connections to customers' premises/properties are not indicated. Trial holes must be carried out to determine the exact alignments and levels of all watermains before commencement of any earthworks.

4. The cost of diversions, if required, of any watermains shall be borne by owner / developer. For watermains of 500mm diameter and above, these are our vital trunk mains and diversions should be avoided unless absolutely necessary. Owner / developer shall determine by means of trial holes the exact alignment and levels of all existing watermains during the design stage and let PUB know whether they are affected by the proposed work so that PUB can advise whether diversion is required. If deem necessary by PUB, the affected watermains shall be diverted and the cost of diversion shall be borne by owner / developer. The cost of diversion shall be finalized upon confirmation on the length of watermains affected.

5. All other necessary precautions must be taken to safeguard and to avoid the damaged to the watermains. The cost of repairs to any watermains damaged as a result of work carried out is to be borne by party which causes the damage. The party will also be billed for the repair of the mains and the estimated quantities of water lost from the damaged mains. The party will also be required to indemnify PUB against all losses and claims arising from damage to watermains.

6. Please inform PUB 24-hour Call Centre at Tel No 1800-CALL PUB (1800-2255782) immediately in the event of damaged to watermain.

Type of Water Mains:

PUB Water Mains	Dia
NEWater Mains	NW - Dia
Industrial Water Mains	IW - Dia
Raw Water Mains	RW - Dia

Legend:

- Existing Water Mains
- Proposed Water Mains
- Water Mains Under Construction
- Abandoned Water Mains
- Water Chamber
- Double Pillar Hydrant
- Ground Pillar Hydrant
- Triple Pillar Hydrant
- PUB Installation
- Drain Line
- The Proposed Site is outlined in YELLOW

N

0 2 4 6 8 10 Meters

(A3 Paper) SCALE 1:500

Done By: INLIS DATE: 17/03/2023